Price Computing Scale

TP Series

(VER.2)

OWNER'S MANUAL

9002-TP2-0011-0

2003.1

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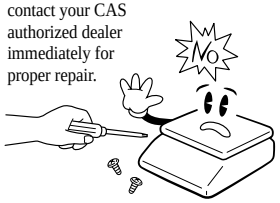
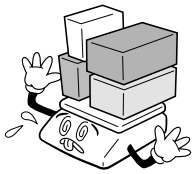
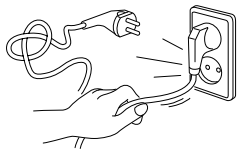
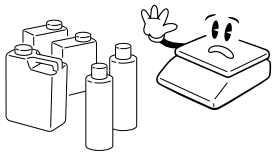
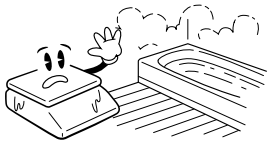
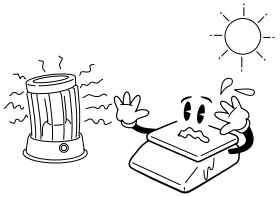
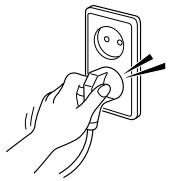
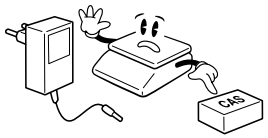
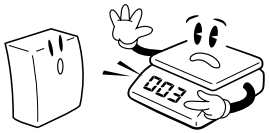
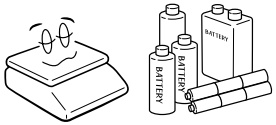
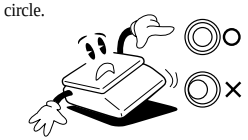
PRECAUTIONS

Precautions when installing the scale. To ensure that you get the most from your scale, please follow these instruction.

⚠ Warning		
Do not disassemble the scale. When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair. 	Do not overload beyond the maximum weight limit. 	Scale must be grounded to minimize electricity static. This will minimize defect or electric shock.
Do not pull the plug by its cord when unplugging. Damaged cord could cause electric shock or fire. 	To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas. 	To reduce electric shock or incorrect reading, Do not spill water on the scale or place it in humid condition. 
Avoid placing the scale near heater or in direct sunlight. 	Insert plug firmly to wall outlet to prevent electric shock. 	Use proper Adapter. Incorrect adapter could damage the scale. 

Make sure to plug your scale into the proper power outlet. For maximum performance, plug into a power outlet 30 minutes before the usage for warm up.

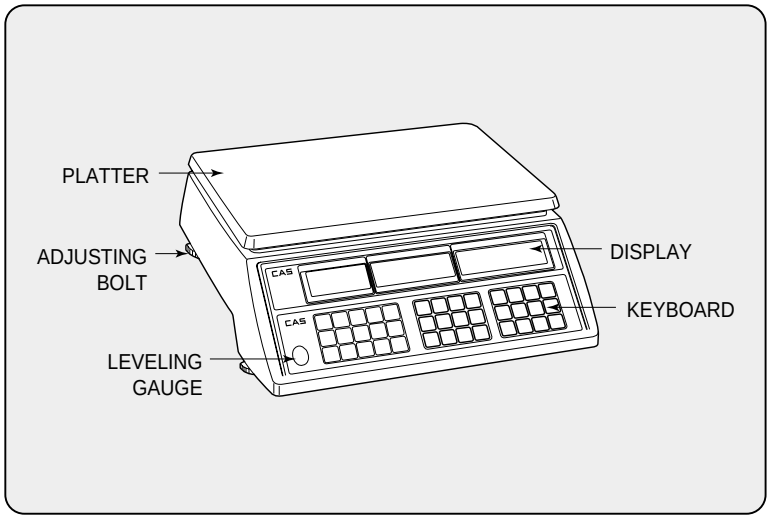
⚠ Attention		
For consistent and accurate reading, maintain periodical check by your CAS authorized dealer. 	Avoid sudden shock to the scale. Internal mechanism could be damaged.	Grab on the bottom of the scale when moving. Do not hold by the platter.
Take the battery out when scale is not in use for long time. Leakage from the batteries is hazardous. 	Place the scale on firm and temperature consistent environment.	If the scale is not properly level, please adjust the 4 legsat the bottom of the scale (turn legs clockwise or counterclockwise) so as to center the bubble of the leveling gauge inside the indicated circle. 
Keep the scale away from other electromagnetic generating devices. This may interfere with accurate reading.		

PREFACE

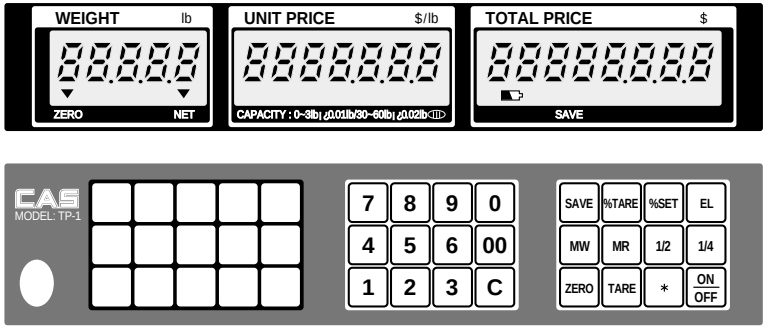
Thank you for purchasing our CAS TP-Series.
These series have been designed with CAS reliability, under rigid quality control and with outstanding performance. Your specialty departments can enjoy these high quality reliable CAS products.
We believe that your needs will be satisfied and you will have proper reliability.
This manual will help you with proper operation and care of the TP-Series.
Please keep it handy for future reference.

NAMES AND FUNCTIONS

OVERALL VIEW



DISPLAY & KEYBOARD



■ FUNCTIONS

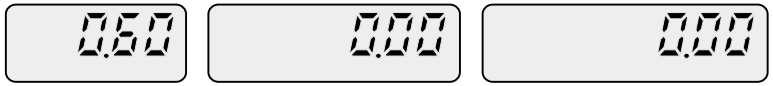
KEYS	DESCRIPTIONS
0 ~ 9	Used to enter all the numerical data.
00	Used to enter a double zero.
C	Used to clear erroneous entries and to clear PLUs that have been called-up
SAVE	Used to save currently called unit price
%TARE	Used to save and call % TARE.
%SET	Used to set % TARE.
MR	Used to call up a indirect PLU.
MW	Used to save a PLU to the memory.
1/2	This key allows the sale of items by unit price per half lb. This function doubles the price.
1/4	This key allows the sale of items by unit price per quarter lb. This function quadruples the price.

KEYS	DESCRIPTIONS
ZERO	Used to set the zero point to 0.00.
TARE	Used to enter a tare weight. Used to delete a tare weight.
*	No function
ON/OFF	Turns on and off the power.
EL	Used to turn on/off the back-light.

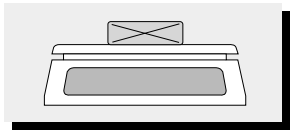
OPERATIONS

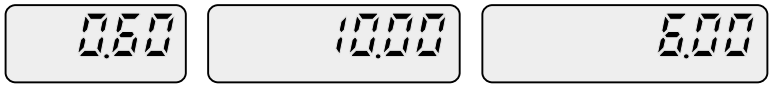
- Turn on the display by pressing the **ON/OFF** key.
- When you turn on the display, the display will show all the segments and count up “0” to “9”. (If you want to stop it, press any key.)
- When you turn on the display, make sure that platter is empty. Otherwise, the display will show the “**OFL**”. (Refer to ERROR MESSAGE)
- When you need to zero adjustment, press the **ZERO** key. Then the display will show “0.000”. Make sure that the ZERO lamp is on.

1. General Weighing

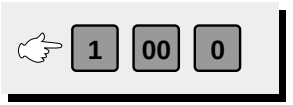


Place the commodity on the platter.



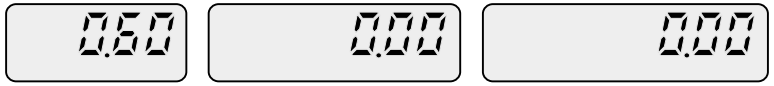


Enter a unit price, then you will see the total price.

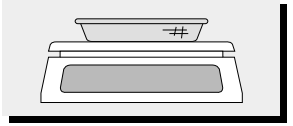


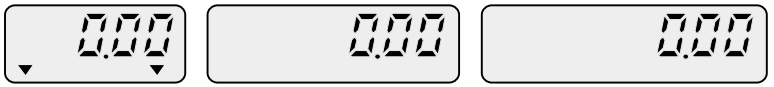
2. Weighing with Tare

- Tare is the weight of container being used for a commodity.
- The TARE key subtracts the weight of the container.

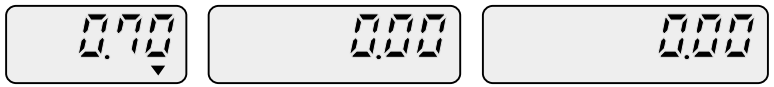


① Place the container on the platter.

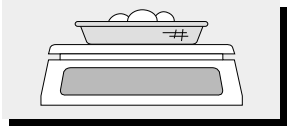


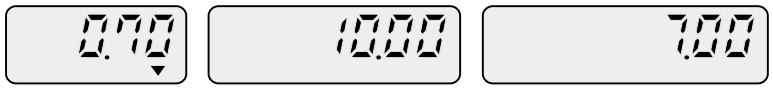


② Press the TARE key. Make sure that ZERO and TARE lamps should be on.

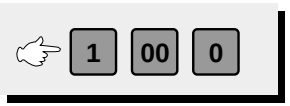


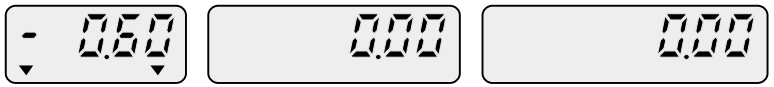
③ Place a commodity in the container, then the display will show net weight of the commodity.



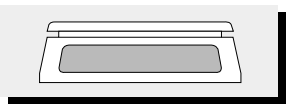


④ Enter a unit price, then you will see the total price.





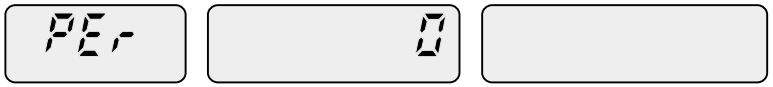
⑤ Remove the container and the commodity, then the display will show the weight of container with "–".



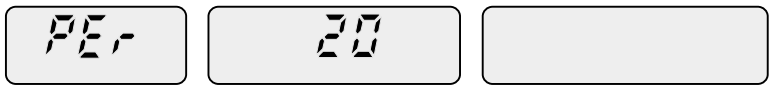
⑥ Press the TARE key.

3. How to Set % TARE

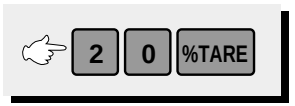
■ Note that you can enter up to 99% tare.

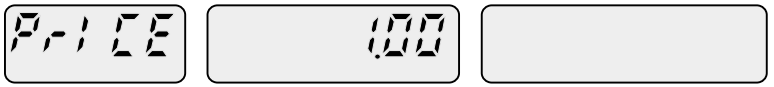


① Press the % SET key.

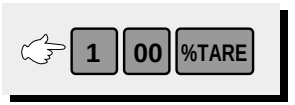


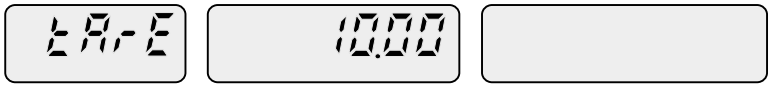
② If you want to set tare to 20%, enter 20 and press % TARE key.





③ Enter a unit price(1.00) and press the % TARE key.

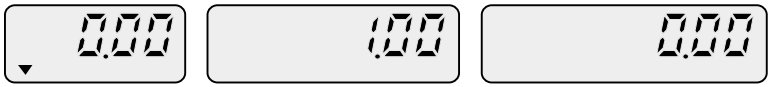




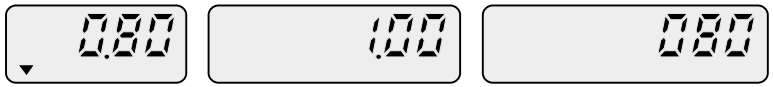
④ Press the % TARE key.

⑤ Press the % TARE key.

4. How to Use % TARE



① Press the % TARE key.

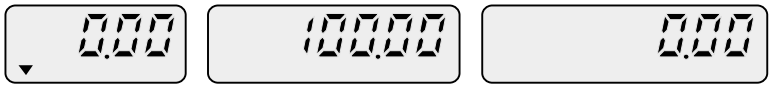


② If you place an item(1.00 lb), the display shows 0.80 lb because you set the tare to 20%.

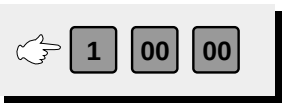
5. How to Save a PLU

- This function save each PLU into a internal back up memory.
- PLU means Price Look Up which has a unit price.

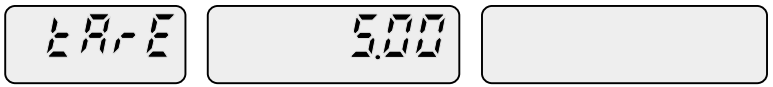
Direct PLU



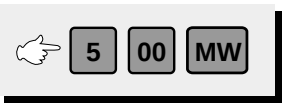
① Enter a unit price by pressing the numeric keys.



② Press the MW key.

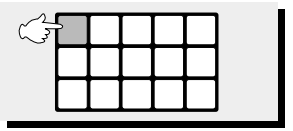


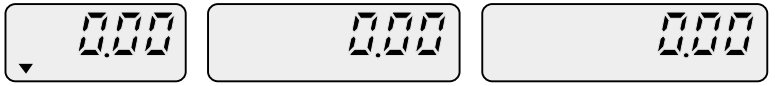
③ If you use tare for this PLU, enter the weight of container and press the MW key. (5.00lb)
If you do not use tare for this PLU, press the MW key.



▶Note: If you have set Tare option to On, you can program tare.
(Refer to Tare Option)

④ Press one of the direct PLU keys, then this price will be stored.

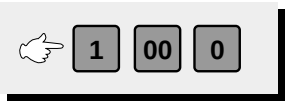


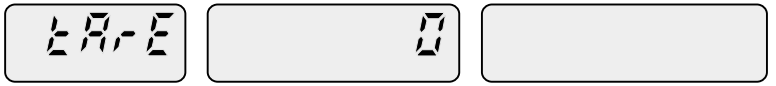


Indirect PLU

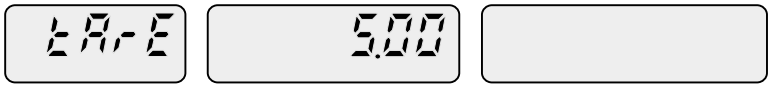
There are 199 indirect PLUs from 1 to 199.

① Enter a unit price by pressing the numeric keys.

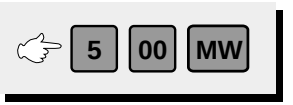




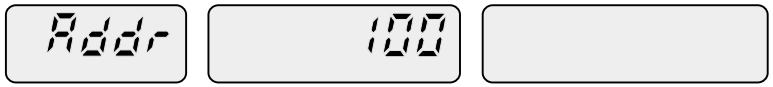
② Press the MW key.



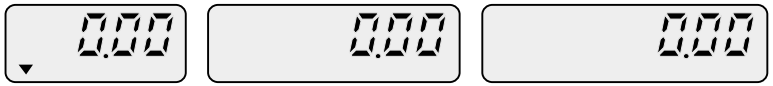
③ If you use tare for this PLU, enter the weight of container and press the MW key. (5.00lb)
If you do not use tare for this PLU, press the MW key.



▶Note: If you have set Tare option to On, you can program tare.
(Refer to 12. Tare Option)

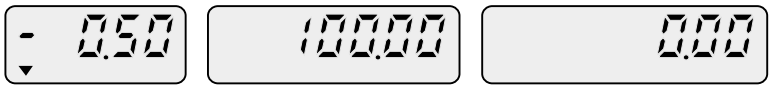


③ Enter the address of PLU and press the MW key.
(Address: 100)

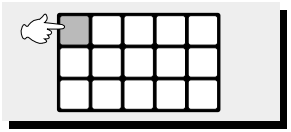


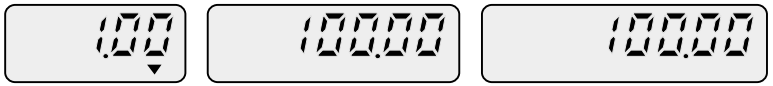
6. How to Call up a PLU

Direct PLU

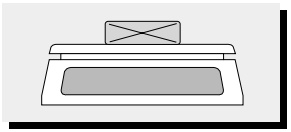


① Press one of the direct PLU keys that you wish to call, then the display will show the unit price.



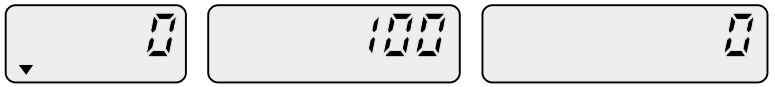


② Place a commodity with container, then will see the total price.

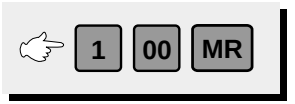


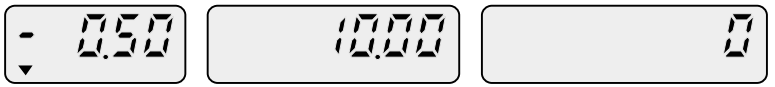
▶ Note: Before you call up a PLU, you should save it to the memory.

Indirect PLU

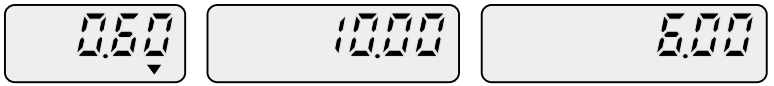


① Enter the address of a PLU and press the MR key.
(Address: 100)

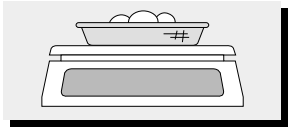




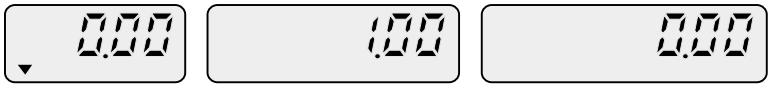
② You will see the tare and the unit price.



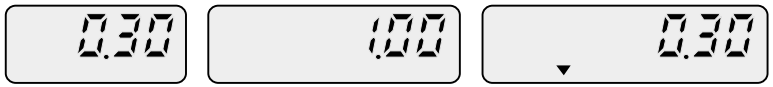
③ Place a commodity with container, then you will see the total price.



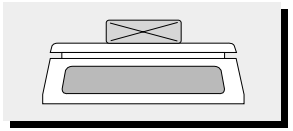
7. How to Save a Currently Called Unit Price

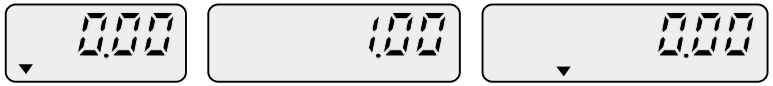


③ Press the SAVE key and enter the unit price or press one of the PLU (M1~M15) keys that you wish to call.



② Place the commodity on the Platter.



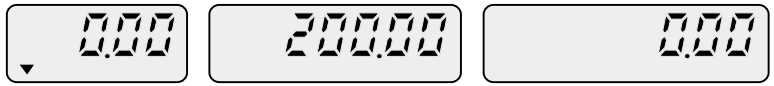


③ Remove the commodity from the platter. The display saves currently called unit price.
You can weigh another commodity which has a same unit price.

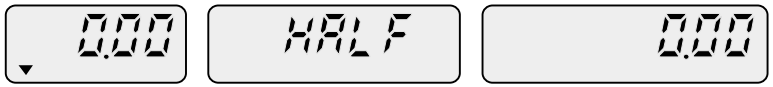
▶ Note: If you want clear this unit price, press the C key.
To release this function, press the SAVE key.

8. 1/2 Function

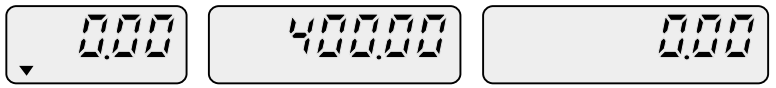
■ This function doubles the unit price.



① Enter a unit price with numeric keys.



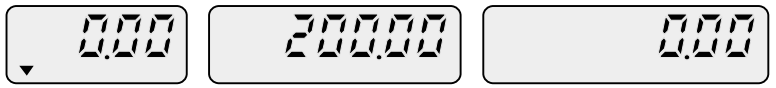
② Press the 1/2 key, you will see the HALF on the unit price display.



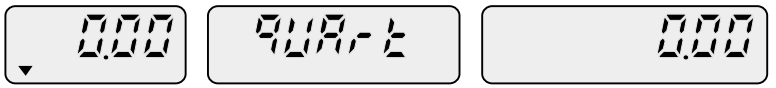
③ The unit price will be double.

9. 1/4 Function

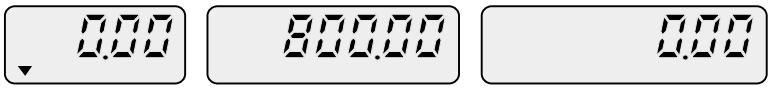
■ This function quadruples the unit price.



① Enter a unit price with numeric keys.



② Press the 1/4 key, then the price shows the qUArt.

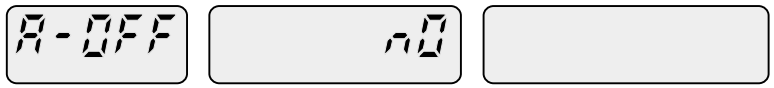


③ The unit price will be quadruple.

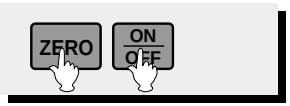
10. Auto-Power Off

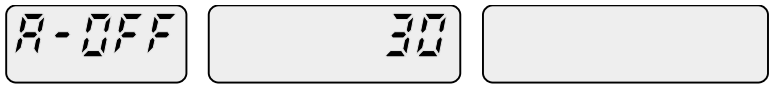
Auto-power off function makes the battery's life span longer.
When you do not operate the scale, this function makes the power OFF automatically.

■ How to cancel the last transaction in the daily total price.



① **Press the ZERO and ON/OFF key at the same time. (If you have set this before, the display will show that value.)**

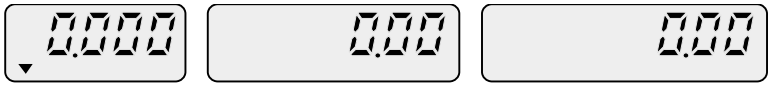




② **Press the TARE key, until the display shows the "xx" that you wish to set. (Refer to Table 1.)**

Table 1.

DISPLAY	DESCRIPTION
nO	This function will not turn the power off automatically.
10	If you don't operate the scale for 10 minutes, this function makes the power OFF.
30	If you don't operate the scale for 30 minutes, this function makes the power OFF.
60	If you don't operate the scale for 60 minutes, this function makes the power OFF.



③ **Press the ZERO key. Then the scale saves what you programmed and shows the "End", then count up "0" to "9". You can go to normal mode.**

11. How to Set the Back-light Function

■ After setting the auto-power off, press the ZERO key then you can set the back-light function.

① **Press the TARE key until the display shows option that you wish to take. (Refer to Table 2)**

Table 2

OPTION	DESCRIPTIONS
ALL On	Backlight is always ON.
OFF	Backlight is always OFF.
ON	If there is an item on the platter, backlight is always on or if you press any key, backlight is ON for 3 seconds.
3	Backlight is ON for 3 seconds, when the weight is stable or when you press any keys.
5	Backlight is ON for 5 seconds, when the weight is stable or when you press any keys.
10	Backlight is ON for 10 seconds, when the weight is stable or when you press any keys.

▶Note: Regardless of this setting, you can turn on or off the back-light by pressing the EL key. You can also turn off the back light by pressing any keys. (If you use the EL key, battery's life will be shortened)

※If the scale shows "LobAt", the back-light does not work. In this case, you have to replace the battery with a new one.

12. Tare Option

After setting the back-light function, press the ZERO key.

① **Press the TARE key until the display shows On or Off. On means that you can program tare while saving a PLU and Off means that you can not program tare while saving a PLU. (Refer to 5. How to Save a PLU)**

② **Press the ZERO key to save this setting then you will go to normal mode.**

13. How to Charge the Battery

If you have the low battery, the scale shows ▭ . At this time, charge the battery by using the adapter. Note that only rechargeable battery is available.
When the red lamp is on, it means that the battery is charging. It takes for 4 hours to charge the battery.
When the green lamp is on, it means that charging is finished. (If you want to fully charge the battery, charge it one more hour.)

■ Low battery

When the battery is low, the scale shows ▭ . And then economize power. Therefore you can't use back light function after 1 hour. Note that you can use back-light function by pressing the EL key, but it shorten operating time. If you do not use the back-light, you can use the scale for 67 hours.

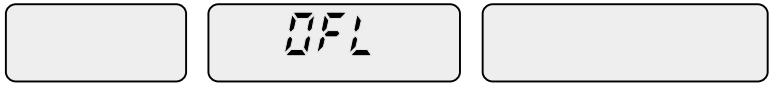
The expected life span of batteries

Item \ Back light Option	EL ALL ON	EL OFF
Normal Battery	About 100 hours	About 200 hours
Alkaline Battery	About 250 hours	About 500 hours
Rechargeable Battery	About 80 hours	About 251 hours

(TP-Ⅰ STANDARD MODE)

▶ Note : You can set the back-light function.
(Refer to 11. How to Set the Back-light function.)

ERROR MESSAGE



▶ **OFL**

This is an overload.
Before turn on the power, make sure that there is nothing on the platter.
Remove the commodity from the platter.

SPECIFICATIONS

ITEM / MODEL	TP
CAPACITY	60lb
READABILITY	0~30 ×0.01lb
	30~60 ×0.02lb
DISPLAY	WEIGHT: 5 DIGIT UNIT PRICE: 7 DIGIT TOTAL PRICE: 8 DIGIT
MEMORY	DIRECT PLU: 15, INDIRECT PLU: 199
INTERFACE	RS232
PLATTER (mm)	332(W) ×250(H)
PRODUCT (mm)	350(W) ×373(D) ×122(H)
PRODUCT WEIGHT	6.2kg
POWER SUPPLY	1.5V ×6(D size Battery) AC/DC 12V, 9V Adaptor
POWER CONSUMPTION	APPROX. 0.2W(with back-light: 2.4W)
BATTERY OPERATING TIME	200 hours(Manganese battery), 500 hours(Alkaline battery)
OPERATING TEMPERATURE RANGE	-10℃ ~ +40℃
OPTION	Rechargeable(NiCd) Battery, Back-light function, ECR function

▶ Notice: Specifications are subject to change for improvement without notice.